

CONTACT DETAILS	Email: ghoshadi@stanford.edu Phone: +1 (650) 382 7711	ADDRESS Department of Statistics, Stanford University 390 Jane Stanford Way, Sequoia Hall Stanford, CA 94305
EDUCATION	Ph.D. in Statistics, Stanford University GPA 4.13 2022 – present <ul style="list-style-type: none"> • Advised by Stefan Wager (Stanford GSB) & Dominik Rothenhäusler (Stanford Statistics) Masters of Statistics (M.Stat), Indian Statistical Institute, Kolkata 2020 – 2022 <ul style="list-style-type: none"> • Dissertation advisor: Prof. Bodhisattva Sen (Columbia University) • Specialization: Theoretical Statistics Bachelor of Statistics (B.Stat), Indian Statistical Institute, Kolkata 2017 – 2020	
RESEARCH	<p>My current research focuses on the intersection of causal inference, statistical learning, and optimization. I am also interested in nonparametric statistics, random graphs, random matrices and their applications in statistics.</p> <ol style="list-style-type: none"> 2. Ghosh, A., Deb, N., Karmakar, B., & Sen, B. (2021+). Efficiency and Robustness of Regression (Un)-Adjusted Rosenbaum’s Rank-based Estimator in Randomized Experiments. <i>Submitted.</i> ↗ 1. Ghosh, A. (2019). An asymptotic formula for the Chebyshev theta function. <i>Notes on Number Theory and Discrete Mathematics</i>, 25(4), 1-7. ↗ 	
INVITED TALKS	<ul style="list-style-type: none"> • Computational and Methodological Statistics, HTW Berlin, University of Applied Sciences, Berlin, Germany 2023 Title: Efficiency and robustness of Rosenbaum’s regression (un)-adjusted rank-based estimator in randomized experiments • PCM Memorial Lecture, Indian Statistical Institute, Kolkata 2022 Title: The synthetic control method in causal inference • D. Basu Memorial Lecture, Indian Statistical Institute, Kolkata 2021 Title: Large low-rank matrix completion • Online Reading Group on Functional Data Analysis ↗ 2021 Title: Two-sample testing of the equality of mean functions • Students’ Learning Seminar, Indian Statistical Institute, Kolkata 2021 Title: Matching estimators in causal inference 	
TEACHING	Teaching Assistant (TA), Stanford University ExploreCourses ↗ <ul style="list-style-type: none"> • Stats 310B/Math 230B: Theory of Probability II. Winter 2024 • Stats 310A/Math 230A: Theory of Probability I. Fall 2023 • Stats 216: Introduction to Statistical Learning. Winter 2023 • Stats 202: Data Mining and Analysis. Summer 2023, Fall 2022 Other experiences <ul style="list-style-type: none"> • Trained numerous high school students for mathematical olympiads, entrance examinations of Indian Statistical Institute, Chennai Mathematical Institute, and other competitive exams. • Maintained a blog (ghoshadi.wordpress.com) aimed at helping high-school students prepare for Mathematical Olympiads and similar competitions. 	

AWARDS	<p>Recognitions from the Indian Statistical Institute</p> <ul style="list-style-type: none"> • ISIAA – J. K. Ghosh Memorial Gold Medal (outstanding performance in M.Stat) 2023 • ISIAA – Mrs. M. R. Iyer Memorial Gold Medal (best overall performance in B.Stat) 2021 • Nikhilesh Bhattacharyya Memorial Gold Medal (best performance in Statistics in B.Stat) 2021 <p>Others</p> <ul style="list-style-type: none"> • Madhava Mathematics Competition, received invitation to a prestigious event 2019, 2018 • Indian National Mathematical Olympiad, earned a certificate of merit from NBHM, Govt. of India (awarded to the top 75 INMO participants in the country) 2016
OLDER PROJECTS & INTERNSHIPS	<ul style="list-style-type: none"> • Rank and matching based methods in causal inference 2021 • Analyzing a lower back pain data with classmates Anik Burman and Soham Das 2020 • On Age-dependent branching processes with/without immigration with classmates Wribhu Banik and Shouvik Middey 2020 • Finding anomalies in a coal quality data of Coal India Limited with classmates Soham Das and Arjama Das 2020 • Typical distance between two randomly selected vertices of a Erdős-Rényi binomial random graph with classmate Sayak Chatterjee 2020 • Method of moments in random matrix theory 2019 • Summer Internship in Cryptology, at the R. C. Bose Centre for Cryptology and Security, Indian Statistical Institute, Kolkata 2019
LANGUAGES	{English, Bengali (native), Hindi}, {R, Python}, {L ^A T _E X, Markdown, HTML}